

**MODIFICATION INSTRUCTIONS**  
**for the**  
***Kodak X-Omat 180 LP PROCESSOR***  
**Service Codes: 3227**

***Kodak X-Omat 180 LPS PROCESSOR***  
**Service Code: 3198**

**Modification No. 11**  
**Type 1 Required**

- Purpose:** To improve the PROCESSOR reliability by:
- changing the AC input voltage to the QUAD POWER SUPPLY to lower the temperature
  - installing a new QUAD POWER SUPPLY
  - installing new software to eliminate errors caused by mis-adjusted ENTRANCE DETECTOR SWITCHES
  - installing new STANDOFFS on the PROCESSOR INTERFACE CONNECTOR to minimize communication errors



**Important**

Use qualified personnel to install this modification.



HEALTH IMAGING

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**PLEASE NOTE** The information contained herein is based on the experience and knowledge relating to the subject matter gained by Eastman Kodak Company prior to publication.

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This equipment includes parts and assemblies sensitive to damage from electrostatic discharge. Use caution to prevent damage during all service procedures.

**Service Effects:** Make wiring changes to the wiring diagrams DIAGRAM PACKAGE, 1C7841.

**Special Requirements:** The 180 LP SORTER, if fitted, must have Modification No. 1, 1C7525.

**Serial Numbers:** 101-3999.....180 LP PROCESSOR  
10001-13499.....180 LPS PROCESSOR

**Installation Time:** Approximately 1.5 hours.

**Special Tools:**

- PORTABLE COMPUTER
- INTEFACE CABLE TL-4391

**Parts Status:** Available through Service Parts Management.

**Parts Requirements:** See table below.

MODIFICATION KIT 7C8702 includes:

Part No.	Description	Qty.
7C8295	MODIFICATION INSTRUCTIONS	1
955745	QUAD POWER SUPPLY	1
7C8704	WIRING KIT: <ul style="list-style-type: none"><li>• WIRE No. 13</li><li>• WIRE No. 14</li><li>• CONNECTOR J9 AND WIRING ASSEMBLY</li><li>• 17 TIE WRAPS</li></ul>	1
9B8473	SOFTWARE DOWNLOAD DISK, Version 2.25	1
918095	STANDOFF KIT	1
655272	HEATSINK COMPOUND PACKET	1

## Installing the new QUAD POWER SUPPLY



### Warning

Dangerous Voltage

- [1] De-energize the PROCESSOR.



### Note

If the PROCESSOR has a SORTER, remove the BIN ASSEMBLY.

- [2] Lift the TOP COVER.

- [3] Remove:

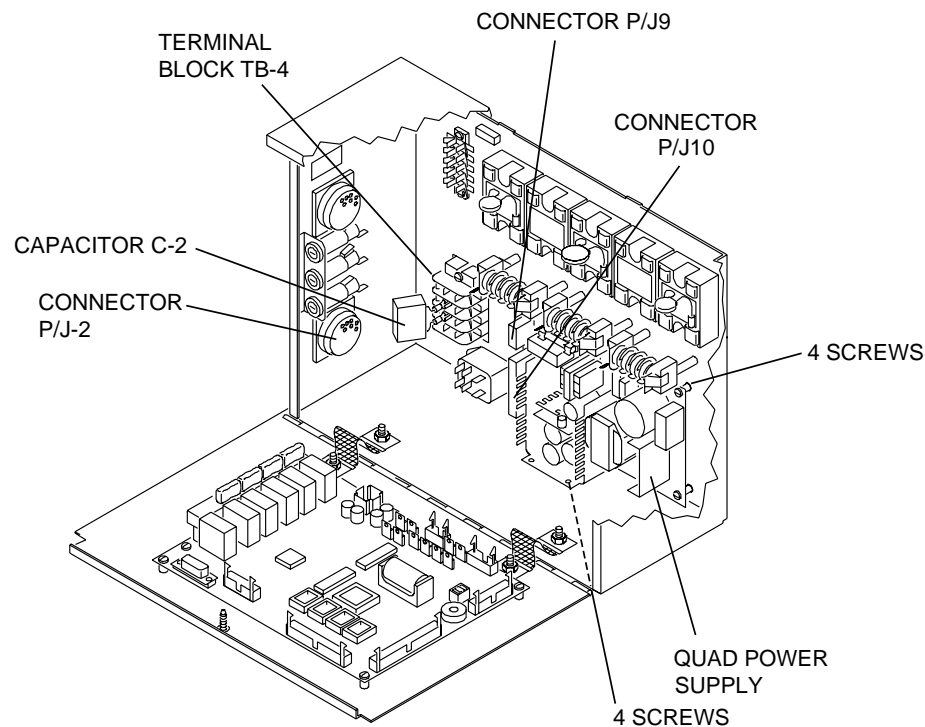
- DRIVE SIDE PANEL
- INTERFACE CABLE
- NON-DRIVE SIDE PANEL
- DRYER SIDE PANEL



### Note

**Optional:** The ELECTRICAL BOX can be removed from the PROCESSOR to do the following procedures.

- [4] Open the ELECTRICAL BOX.



H127\_0245HCC  
H127\_0245HC

- [5] Remove from the QUAD POWER SUPPLY:

- CONNECTORS J9 and J10
- 4 SCREWS inside the ELECTRICAL BOX that hold the POWER SUPPLY
- 4 SCREWS under the ELECTRICAL BOX that hold the POWER SUPPLY (SCREWS not shown.)

- [6] Remove and discard the QUAD POWER SUPPLY. (QUAD POWER SUPPLY has been damaged by heat.)



### Important

All the old HEATSINK COMPOUND must be removed for correct contact.

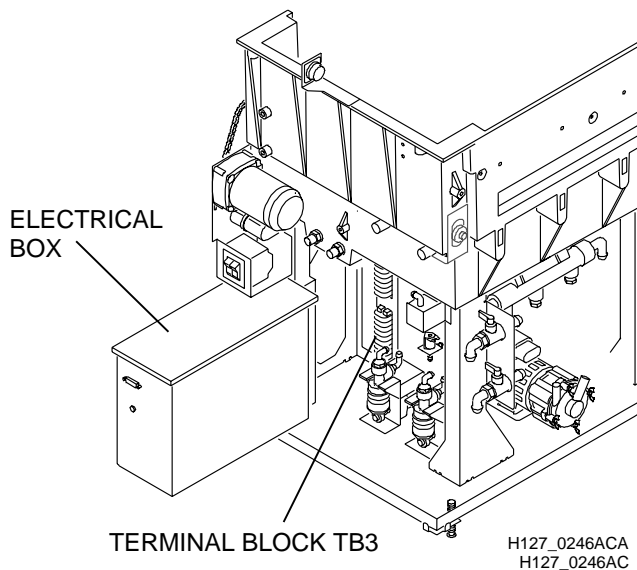
- [7] Clean the old HEATSINK COMPOUND from inside the ELECTRICAL BOX.
- [8] Apply a thin layer of the new HEATSINK COMPOUND to the surface of the new QUAD POWER SUPPLY. Make sure the surface is covered with the COMPOUND.
- [9] Install:
  - new QUAD POWER SUPPLY in the ELECTRICAL BOX
  - CONNECTOR J10 to the QUAD POWER SUPPLY



### Note

Do not install CONNECTOR J9 at this time.

## Installing the New 120 V AC WIRES Outside of the ELECTRICAL BOX



- [1] Locate the following COMPONENTS outside of the ELECTRICAL BOX:
  - TERMINAL BLOCK TB3, rotate the ELECTRICAL BOX to see the TERMINAL BLOCK
  - CONNECTOR J2  
(See illustration on Page 3.)
- [2] Disconnect J2 from the outside of the ELECTRICAL BOX.
- [3] Loosen the SCREWS for the STRAIN RELIEF on CONNECTOR J2.
- [4] Rotate the BODY of the CONNECTOR to disassemble.
- [5] Slide the STRAIN RELIEF backward to have access to the WIRE TERMINALS.
- [6] Install the new WIRE No. 14 on TERMINAL 4 of TERMINAL BLOCK TB3.



### Important

Press the SOCKET TERMINALS into CONNECTOR J2. The TERMINALS should snap into position.

- [7] Feed the SOCKET TERMINAL END of WIRE No. 14 through the STRAIN RELIEF.
- [8] Insert the SOCKET TERMINAL END of WIRE No. 14 into position 2 of CONNECTOR J2.
- [9] Install the new WIRE No. 13 on TERMINAL 8 of TERMINAL BLOCK TB3
- [10] Feed the SOCKET TERMINAL END of WIRE No. 13 through the STRAIN RELIEF.
- [11] Insert the SOCKET TERMINAL END of WIRE No. 13 into one of the following positions:

PROCESSOR	Serial No.	Position in J2 CONNECTOR
180 LP	below 3000	5
180 LPS	below 13000	
180 LP	3000 and above	16
180 LPS	13000 and above	

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- [12] Slide the STRAIN RELIEF forward.
- [13] Rotate to assemble the BODY onto the CONNECTOR.
- [14] Tighten the SCREWS for the STRAIN RELIEF.
- [15] Fasten the new WIRES to the PROCESSOR HARNESS with the TIE WRAPS provided.
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## **Removing the Old 240 V AC WIRES and CAPACITOR from the Inside of the ELECTRICAL BOX**

- [1] Locate the following COMPONENTS inside the ELECTRICAL BOX: (See the illustration on Page 3.)
- TERMINAL BLOCK TB4
  - CAPACITOR C2
  - CONNECTOR J9
- [2] Cut the WIRE TIES to remove the J9 WIRES from the HARNESS.

### **Note**

Note the position of the GROUND WIRES, STAR WASHERS, and NUT to assemble later.

- [3] Disconnect the yellow/green J9 GROUND WIRE from the GROUNDING STUD.
- [4] Remove:
- J9 WIRE No. 35 from TERMINAL 2 of TB4
  - J9 WIRE No. 36 from TERMINAL 3 of TB4
- [5] Discard the old CONNECTOR J9 and WIRING ASSEMBLY
- [6] Remove CAPACITOR C2 from TERMINALS 2 and 3 on TB4 and discard the CAPACITOR.
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## **Installing the New WIRES Inside of the ELECTRICAL BOX**

- [1] Locate following COMPONENTS inside the ELECTRICAL BOX: (See the illustration on Page 3.)
- CONNECTOR P2
  - QUAD POWER SUPPLY
- [2] Insert the PIN TERMINAL END of WIRE No. 14 from the new CONNECTOR J9 and WIRING ASSEMBLY, into position 2 of CONNECTOR P2.
- [3] Insert the PIN TERMINAL END of WIRE No. 13 from the new CONNECTOR J9 and WIRING ASSEMBLY, into one of the following positions of CONNECTOR P2:

<b>PROCESSOR</b>	<b>Serial No.</b>	<b>Position in P2 CONNECTOR</b>
180 LP	below 3000	5
180 LPS	below 13000	
180 LP	3000 and above	16
180 LPS	13000 and above	



### Important

The GROUND WIRES, STAR WASHERS, and NUT must be installed in the correct sequence.

[4] Install on the GROUNDING STUD:

- STAR WASHER
- existing yellow/green WIRE
- yellow/green GROUND WIRE for CONNECTOR J9
- STAR WASHER
- NUT, and tighten

[5] Install CONNECTOR J9 to the QUAD POWER SUPPLY.

[6] Fasten the wires to the HARNESS with TIE WRAPS.

[7] Close the ELECTRICAL BOX.

[8] Install CONNECTOR J2 to P2 on the outside of the ELECTRICAL BOX.

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## Removing the ACTUATOR MAGNETS from the ENTRANCE DETECTOR RACK

[1] Remove the ENTRANCE DETECTOR RACK.

[2] Remove and discard:

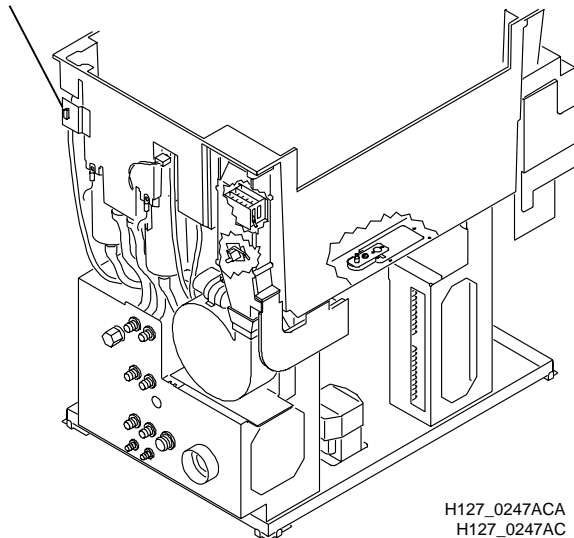
- 2 SCREWS
- 2 LOCKWASHERS
- 2 FLAT WASHERS
- 2 ACTUATOR MAGNETS

[3] Install the ENTRANCE DETECTOR RACK.

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## Installing the STANDOFF SCREWS on the PROCESSOR CONNECTOR P29

CONNECTOR P29



[1] Locate CONNECTOR P29 on the NON DRIVE SIDE of the PROCESSOR.

[2] Remove and discard the old:

- 2 STANDOFF SCREWS
- 2 LOCKWASHERS

[3] Open the STANDOFF KIT and discard:

- 2 WASHERS
- 2 NUTS

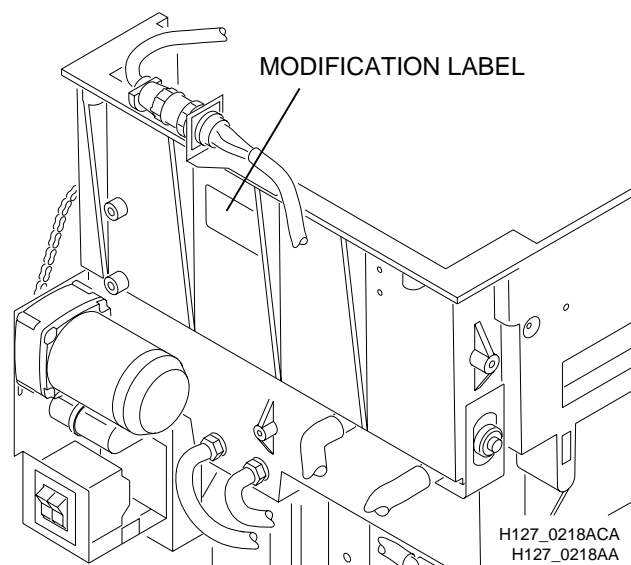
[4] Install and tighten the new STANDOFF SCREWS. (No WASHERS are used.)

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## Installing the New Operating Software

[1] Install the new Operating Software Version 2.25. See the Instructions included with the DISK.

## Completing the Modification



- [1] Circle “11” on the MODIFICATION LABEL.
- [2] Install:
  - DRIVE SIDE PANEL
  - NON DRIVE SIDE PANEL
  - DRYER SIDE PANEL
- [3] Connect the INTERFACE CABLE for the PRINTER to CONNECTOR P29.
- [4] Close the TOP COVER.
- [5] Install the BIN ASSEMBLY if necessary.
- [6] Energize the PROCESSOR
- [7] Check for correct operation of the PROCESSOR.

## Publication History

Print Date	Pub No.	ECO No.	Affected Pages	File Name	Notes
15APR98	7C8295	2619-167	All	ma3227_7_15apr98.doc	First printing.

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